

Application No.: 10/050184
Docket No.: FO6067USNA

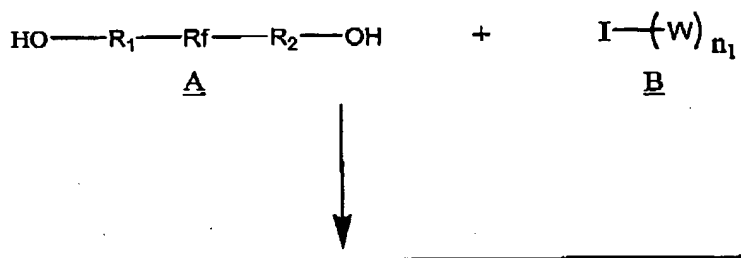
Page 2

Amendments to Claims

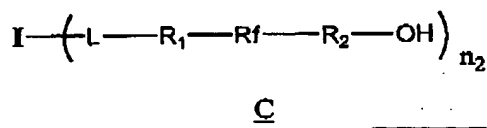
1. (Currently Amended) A fluorinated multifunctional alcohol synthesized from at least one core molecule

having at least three equivalents of hydroxy-reacting functional groups and at least one

fluorinated molecule having at least two hydroxyl groups, wherein the multifunctional alcohol is synthesized using the reaction scheme:



An alcohol product mixture containing



wherein A is a fluorinated monomer or polymer having two hydroxyl groups, wherein Rf is a monomeric or polymeric perfluorinated alkylenediyl, oxyalkylene, arylenediyl, oxyarylene, and

mixtures thereof, and R₁ and R₂ are monomeric or polymeric divalent moieties such as alkylenediyl, oxyalkylene, alkylene sulfide, arylenediyl, oxyarylene, arylene sulfide, siloxane, and mixtures thereof, B is a multifunctional molecule wherein I is a core moiety, W stands for one equivalent of hydroxy-reacting group and n₁ is at least 3; C is the multifunctional alcohol product mixture from A and B, wherein L is an ether link and n₂ is at least 3.

Application No.: 10/050184
Docket No.: FO6067USNA

Page 3

2. (Original) The multifunctional alcohol of Claim 1 wherein there are at least 1.5 equivalents of hydroxyl groups from the fluorinated molecule for every hydroxy-reacting group from the core molecule.

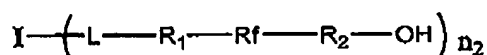
3. (Canceled).

4. (Currently Amended) The multifunctional alcohol of 3-1 wherein n_1 and n_2 range from 3 to 6.

5. (Currently Amended) The multifunctional alcohol of Claim 3-1 wherein there are at least 2.5 OH groups from A for every equivalent of hydroxyl-reacting group, W, from B.

6. (Canceled).

7. (Original) The multifunctional alcohol of Claim 3-1 having the formula of



wherein n_2 ranges from 3 to 6.

8. (Currently Amended) The multifunctional alcohol of Claim 3-1 wherein R_f is a perfluorinated polymethylene moiety having at least 4 carbon atoms.

9. (Currently Amended) The multifunctional alcohol of Claim 3-1 wherein R_f is a perfluorinated poly(oxyalkylene) moiety having at least 4 carbon atoms.

10. (Canceled).

11. (Canceled).

12. (Canceled).

13. (Withdrawn) A multifunctional acrylate prepared from the fluorinated multifunctional alcohol of Claim 1.

14. (Withdrawn) A multifunctional acrylate prepared from the fluorinated multifunctional alcohol of Claim 3.

15. (Withdrawn) The fluorinated multifunctional acrylate of Claim 13 having a number average molecular weight of at least 500.

16. (Withdrawn) A multifunctional acrylate prepared from the fluorinated multifunctional alcohol of Claim 7.

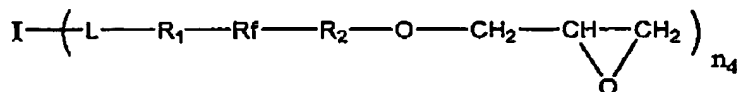
17. (Withdrawn) A polymer coating composition containing at least one acrylate of Claim 13.

Application No.: 10/050184
Docket No.: FO6067USNA

Page 4

18. (Withdrawn) A multifunctional glycidyl ether prepared from the fluorinated multifunctional alcohol of Claim 1.

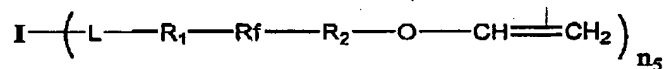
19. (Withdrawn) The multifunctional glycidyl ether of Claim 18 having the formula of



wherein I is a multivalent radical; L is selected from a group of ether, ester and urethane links; R₁ and R₂ are monomeric or polymeric divalent radicals such as alkylenediyl, oxyalkylene, alkylene sulfide, arylenediyl, oxyarylene, arylene sulfide, siloxane, and mixtures thereof, R_f is a monomeric or polymeric perfluorinated alkylenediyl, oxyalkylene, arylenediyl, oxyarylene, and mixtures thereof; and n₄ ranges from 3 to 6.

20. (Withdrawn) A multifunctional vinyl ether prepared from the fluorinated multifunctional alcohol of Claim 1.

21. (Withdrawn) The multifunctional vinyl ether of Claim 20 having the formula of



wherein I is a multivalent radical; L is selected from a group of ether, ester and urethane links; R₁ and R₂ are monomeric or polymeric divalent radicals such as alkylenediyl, oxyalkylene, alkylene sulfide, arylenediyl, oxyarylene, arylene sulfide, siloxane, and mixtures thereof, R_f is a monomeric or polymeric perfluorinated alkylenediyl, oxyalkylene, arylenediyl, oxyarylene, and mixtures thereof; and n₅ ranges from 3 to 6.

22. (New) The multifunctional alcohol of Claim 1 wherein B is chosen from halides or other compounds that react with alcohols to form ethers.

23. (New) The multifunctional alcohol of Claim 1 wherein B is selected from α, α, 2,3,5,6-hexachloro-p-xylene, 1,3-dichloro-2-(chloromethyl)-2-methylpropane, 1,1,1-tris(chloromethyl)-propane, 2,4,6-tris(bromomethyl)mesitylene,

Application No.: 10/050184
Docket No.: FO6067USNA

Page 5

pentaerythrityl tetrachloride, pentaerythrityl tetrabromide, 1,2,4,5-tetrakis(bromomethyl)-benzene, and hexakis(bromomethyl)benzene.